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FIG. 1

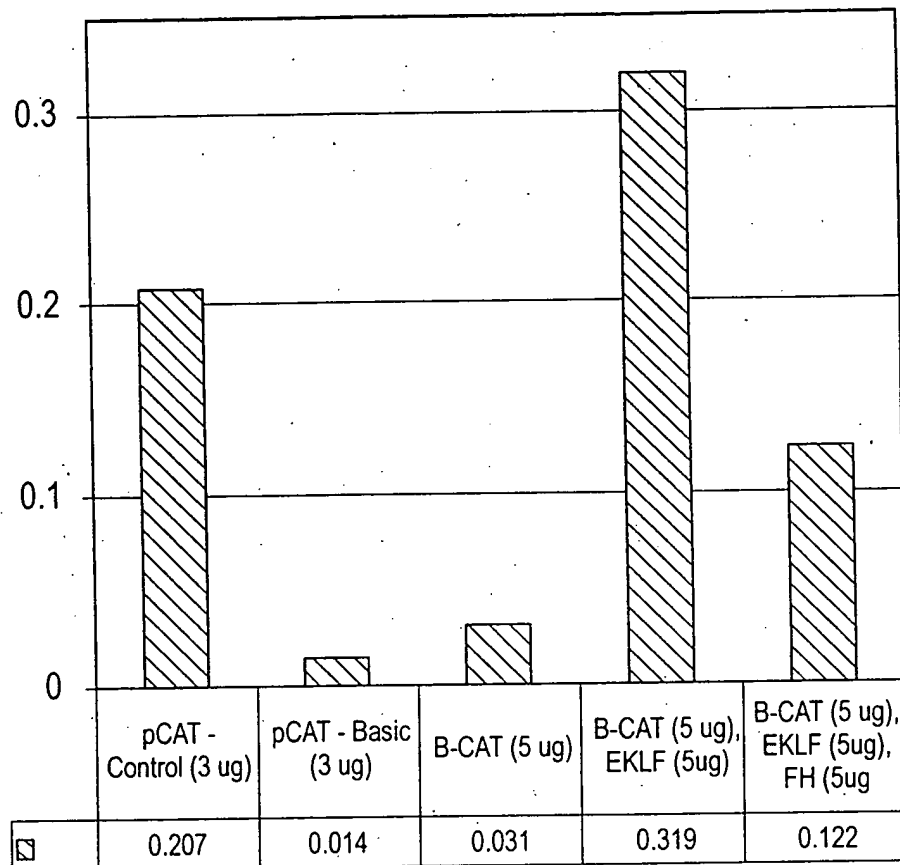


FIG. 2A

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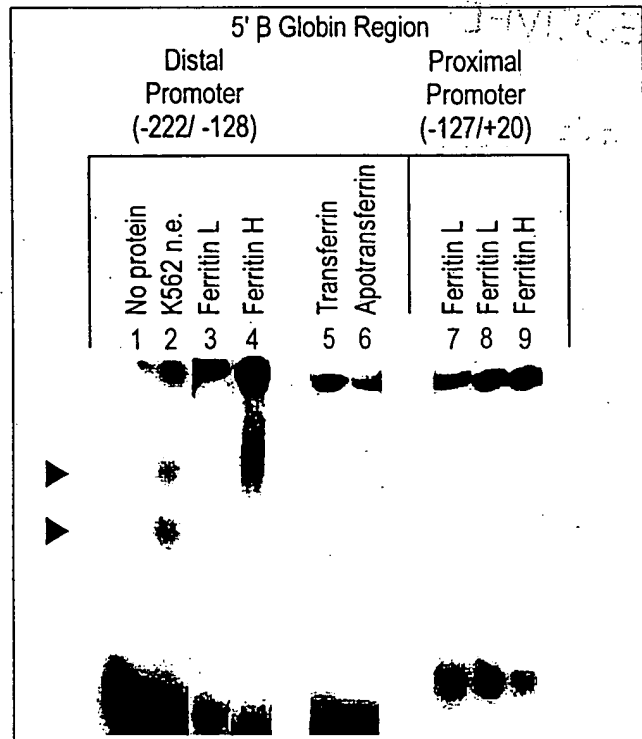
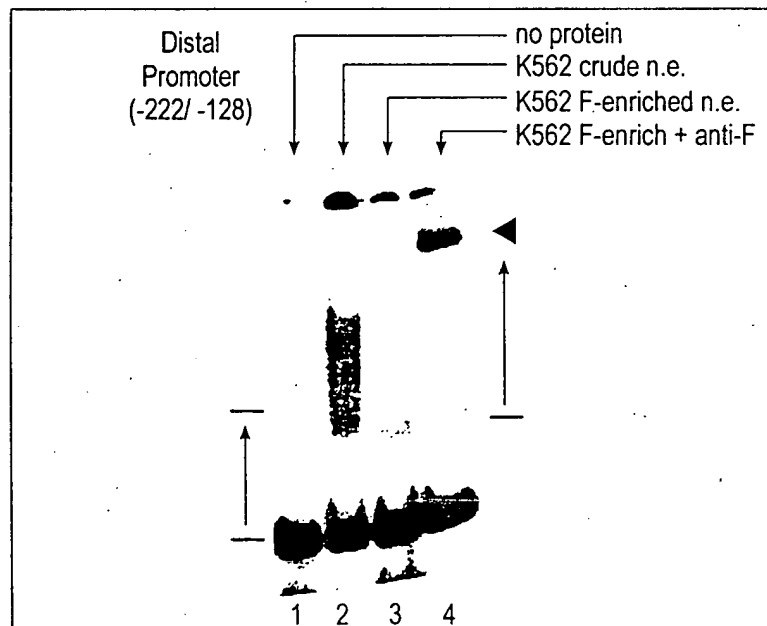


FIG. 2B



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FIG. 2C

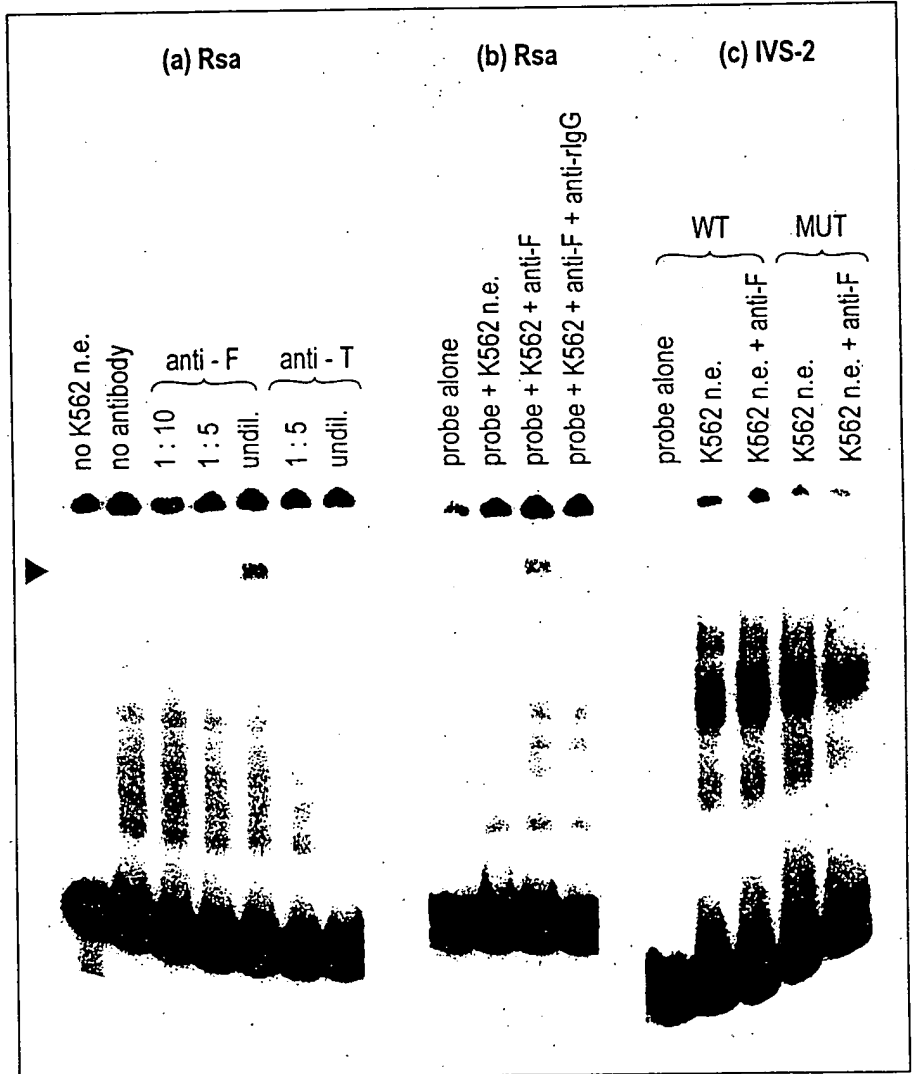


FIG. 3A

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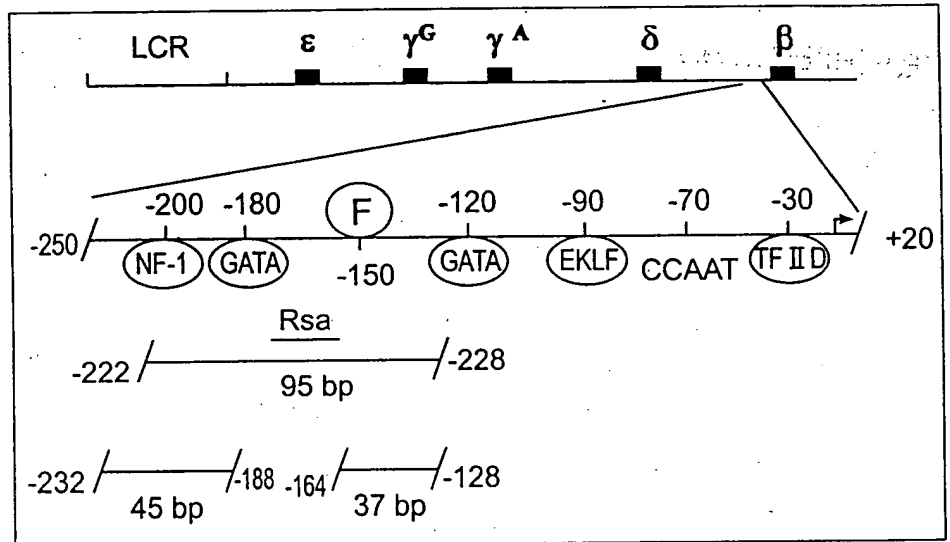
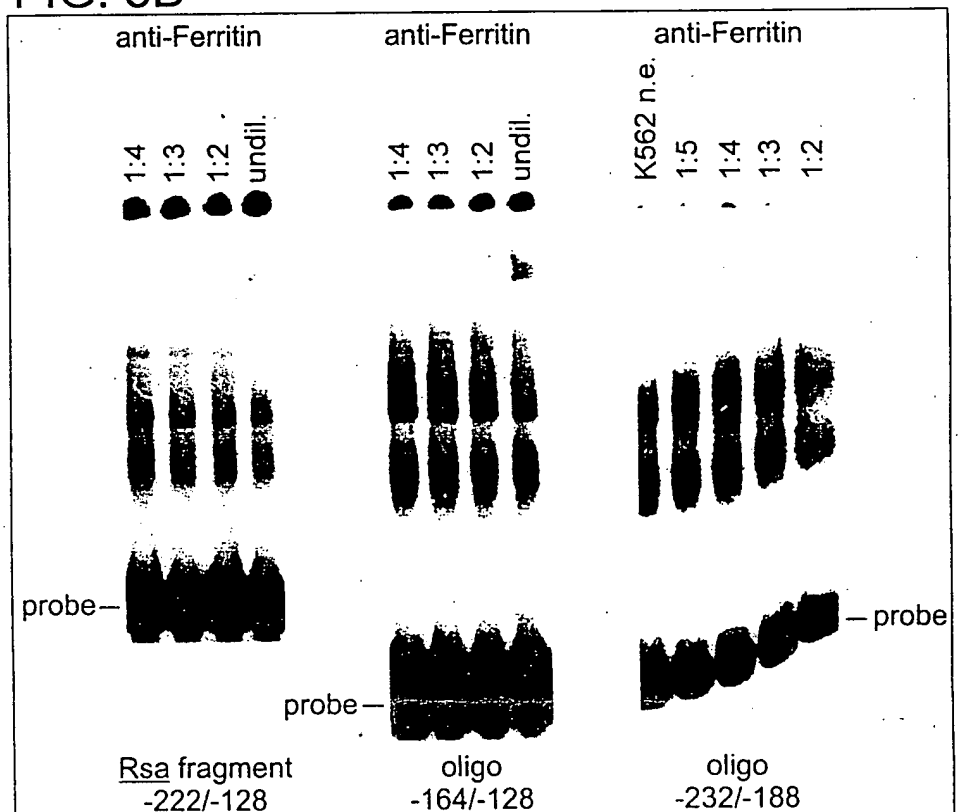


FIG. 3B



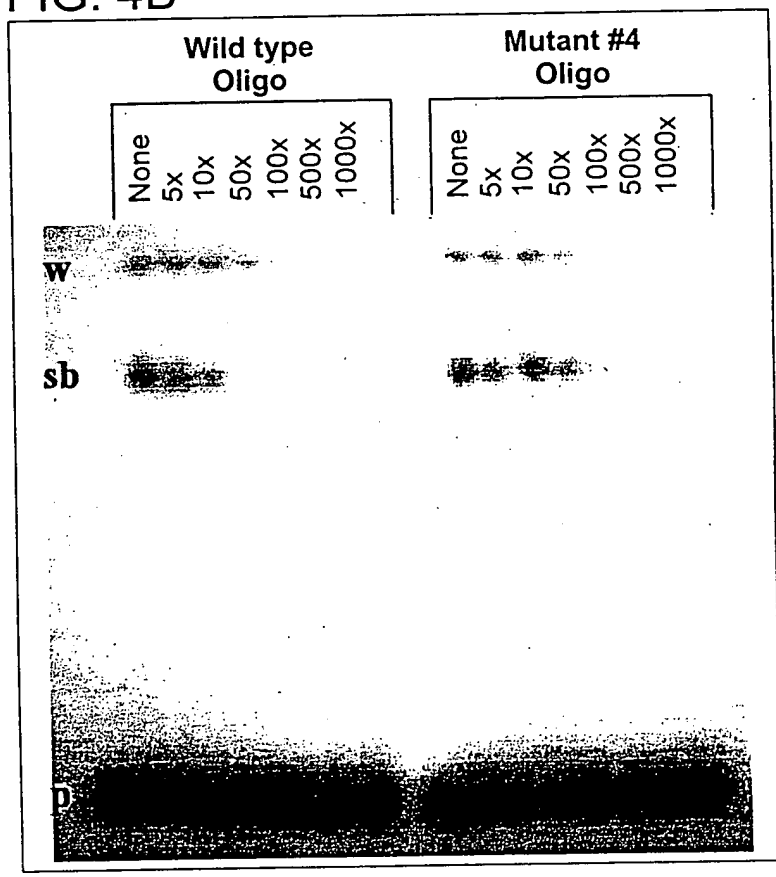
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FIG. 4A

WT and Mutant Oligonucleotides of -164/-128, 5' $\beta$ -Globin	
WT sequence:	5' AACTCCTAAGC <u>CAGTGCC</u> CAGAGAGCCAAGGACAGGT 3'
Mutant #1 (-162/-157):	5' <u>AAGGGGGG</u> AGCCAGTGCCAGAGAGCCAAGGACAGGT 3'
Mutant #2 (-144/-139):	5' AACTCCTAAGCCAGTGCCAG <u>AAAAAA</u> CAAGGACAGGT 3'
Mutant #3 (-135/-130):	5' AACTCCTAAGCCAGTGCCAGAGAGCCAA <u>CCCCCC</u> GT 3'
Mutant #4 (-153/-148):	5' AACTCCTAAGC <u>AAAAAA</u> CAGAGAGCCAAGGACAGGT 3'

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FIG. 4B



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FIG. 4C

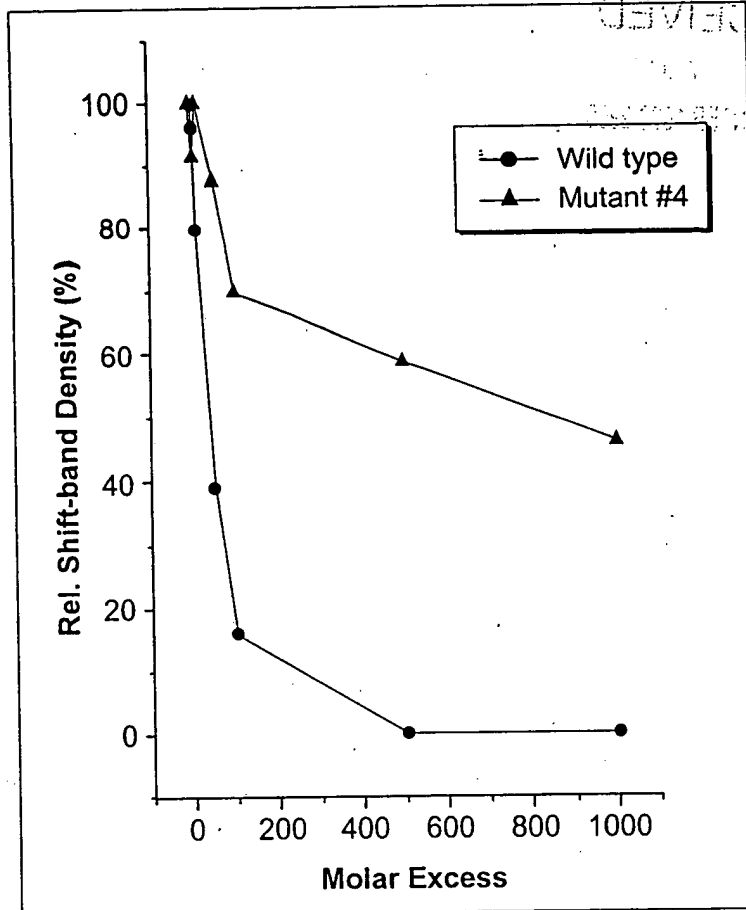


FIG. 4D

Competitor Oligonucleotide	Molar Excess producing 50 % Inhibition
Wild type (WT)	42x
Mutant #1	30x
Mutant #2	38x
Mutant #3	35x
Mutant #4	850x

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FIG. 5

	-162	-153	-148	-142
Human	TCCTAAGC	CAGTGC	CAGAAG	
Gorilla	TCCTAAGC	CAGTGC	CAGGAG	
Macaca	TCCTAAGC	CAGTGC	CAGAAG	
Bovine	TCTAAAGT	CAGTGC	CAGGAA	
Goat	TCTAAAGT	CAGTGC	CAGGAA	
Sheep	TCTAAAGT	CAGTGC	CAGGAA	
Galago	TCCTAAGT	GAGTGC	CAGAAC	
Tarsus	CTCTAAGC	CAGTAC	CAGAAC	
Lepus	TCCTAAGC	CATTGC	CAGAAC	
Rabbit	TCCTAAGC	CATTGC	CATAAC	
Rat	CCTGAGGC	CAGTGG	CCCAGC	
Mouse	TCTTAAGC	CTGTGC	CATAGC	

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FIG. 6

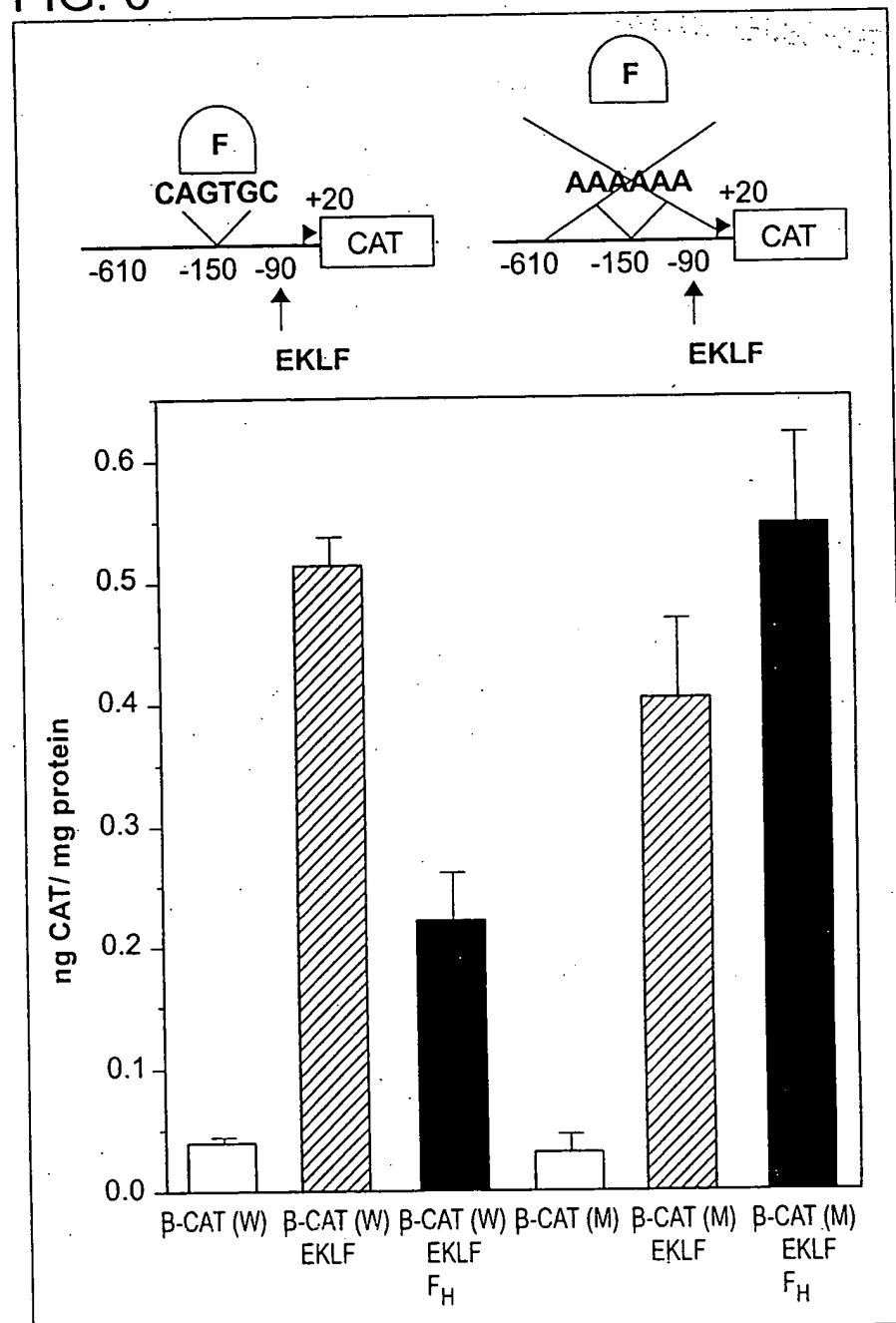
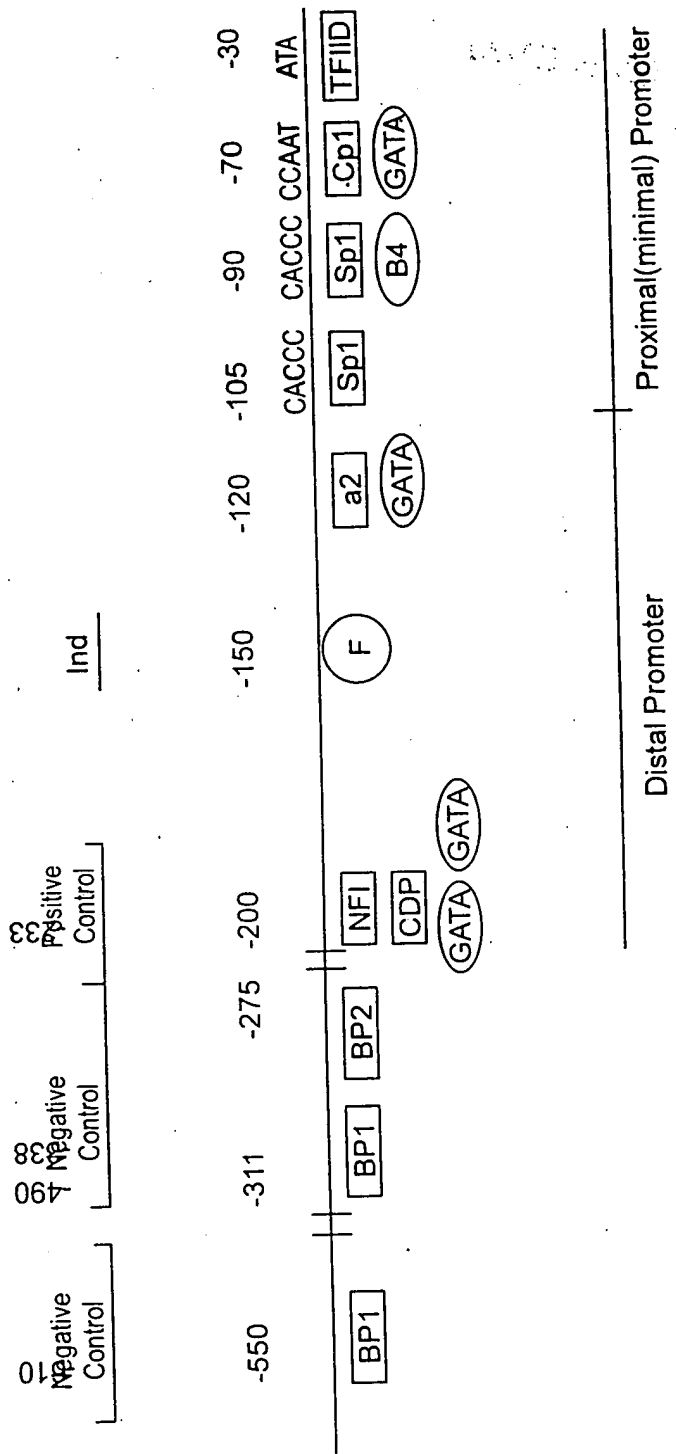






FIG. 8

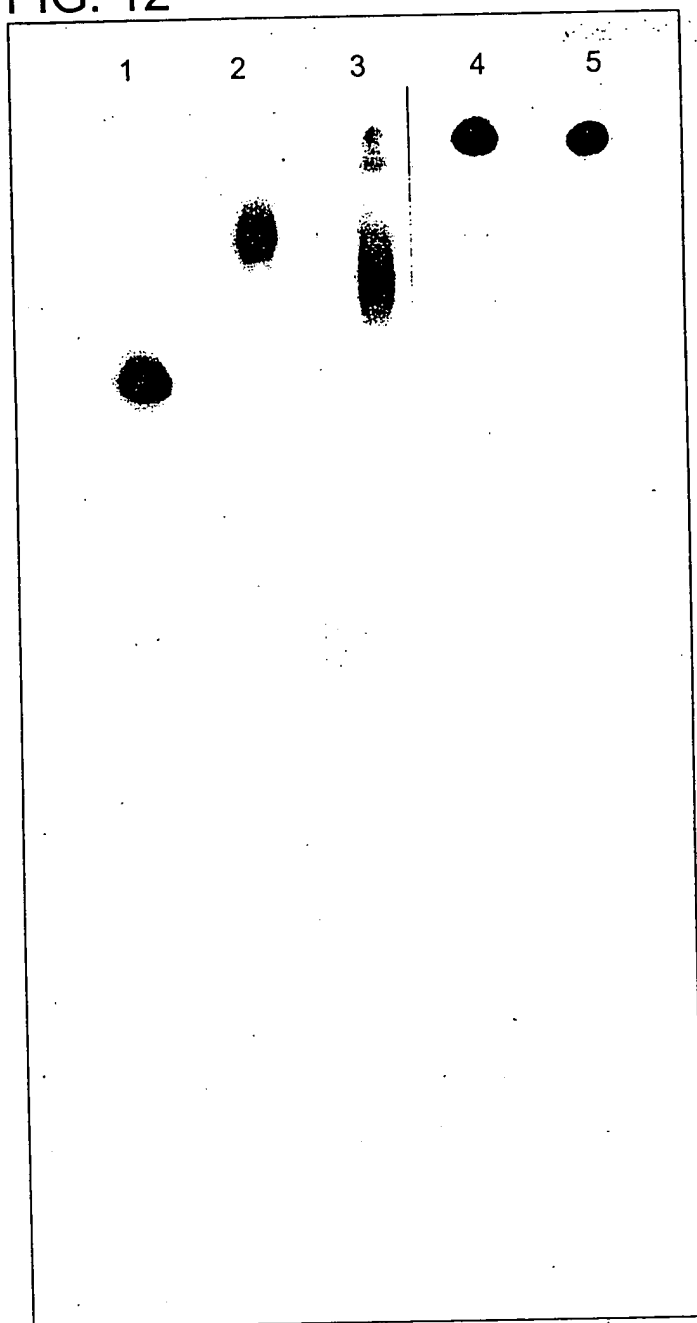
FIG. 8



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FIG. 12



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